

What is claimed is:

1. An apparatus for automatically detecting the presence of a strobo in an earphone jack port of a mobile terminal,
5 the apparatus comprising:

connection means for electrically connecting an earphone/microphone set or a strobo to the mobile terminal and generating level information if one of an earphone/microphone set or a strobe is connected to the
10 mobile terminal;

sense means for determining whether the earphone/microphone set or the strobo is electrically connected to the connection means according to the level information and generating an indication signal containing a
15 determination result;

main process means for generating a control signal to control the earphone/microphone set or the strobo according to the indication signal; and

strobo control means for controlling strobo by receiving
20 the control signal from the main process means.

2. The apparatus as recited in claim 1, further comprising:

call control means for generating a call signal
25 indicating whether or not the mobile terminal is used for originating a call; and

earphone/microphone set control means for controlling an earphone/microphone to pass voice signal to a voice input/output unit in the mobile terminal according to the level information and the call signal.

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3. The apparatus as recited in claim 1, wherein the main process means generates the control signal to enable the strobo control means if the indication signal represents that the strobo is connected to the connection unit and generating a shot signal and a charge control signal.

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4. The apparatus as recited in claim 2, wherein the strobo control means controls the strobo according to the shot signal and the charge control signal from the main process means.

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5. The apparatus as recited in claim 1, wherein the main process means generates the control signal to enable the earphone/microphone set control means if the indication signal represents that the earphone/microphone set is connected to the connection unit.

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6. The apparatus as recited in claim 1, wherein the connection means generates the level information having a voltage level and the sense means generates the indication signal by analyzing the voltage level in the level

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information.

7. The apparatus as recited in claim 1, wherein the connection means includes:

5 a microphone/charge-control signal end for providing a connection to both the microphone end of the earphone/microphone set plug and the charge-control signal end of a strobo plug;

10 a speaker/shot end for providing a connection to both the speaker end of the earphone/microphone set plug and the shot end of the strobo plug;

15 a switch end for making known which of the following, the earphone/microphone set or the strobo, is electrically connected to the earphone-microphone set/strobo connection means while the earphone-microphone set/strobo connection means is physically connected to the speaker/shot end; and

a ground end for providing a connection to the ground end of the earphone/microphone set plug as well as the ground end of the strobo plug.

20 8. A method for automatically detecting the presence of a strobo in an earphone jack port of a mobile terminal, the method comprising the steps of:

25 a) obtaining level information from a connection unit;
b) determining whether an earphone/microphone set or a strobo is electrically connected to the connection unit

according to the level information;

c) enabling a strobo control unit if the strobo is electrically connected to the connection unit as a determination result of step b); and

5 d) enabling the earphone/microphone set control unit if the earphone/microphone set is electrically connected to the connection unit as a determination result of step b).